

STATE OF WASHINGTON
DEPARTMENT OF FISH & WILDLIFE
LANDS AND RESTORATION SERVICES PROGRAM
Salmonid Screening, Habitat Enhancement &
Restoration Division (SSHEAR)

OFF-CHANNEL SITE INVENTORY DATA

General Information:

Region: North Coast	Observer(s): Nettnin
River System: Sol Duc	Date: 3/11/98
Site Identifier: S-0315	WRIA: 20.0315
River Mile Location: 3.9 mi.	RB/LB: RB
Local Name: Unnamed	Trib. to: Lake Pleasant
Legal Description: SE ¼ Sec 26 T30N R13W	County: Clallam
Habitat Type: Valley Wall Trib	
Landowner: <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private - Possibly Rayonier Timber Operations Company	

Directions to site:

North from Forks on Highway 101 to MP 200.5. Turn left onto West Lake Pleasant Road and drive to the end of the blacktop (~1.3 miles), bearing right at the junction just past the bridge over Lake Creek. Three tenths of a mile up the 9000 line is 20.0315.

Site Overview:

This valley wall tributary drains about 450 - 500 acres of harvested, commercial forest. The channel sources on the southeast flank of Tyee Ridge at 1600 feet. It flows through a V-notch valley to the main valley floor at an elevation of about 400 feet. The reach from the lake to the 9000 line has a gradient of less than 7%. It meanders through a mature forest, has quality gravel, and is most likely the reach where coho spawning would take place. The reach between the 9000 and the 9081 roads fluctuates between 10 - 20%. It has two major tributaries and numerous 1.0 - 1.5 meter falls and cascades. The 500-meter reach above the 9081 road has a gradient of 5 - 7%. The next 400 meters, the gradient fluctuates between 12 - 20%, and has a bedrock nick point with a large accumulation of large and small woody debris. This reach also has several small steep tributaries, evidence of mass wasting and frequent large boulders (2 - 3 m diameter). Trout habitat is suspected to continue upstream and that the gradient is less than 25% for a considerable distance. The reach above the 9000 line to the source has a substrate composed of boulders and cobble with gravel in the tailout of the small pools. The RMZ was harvested from past logging and is growing back as a deciduous strip. Due to gradient, the stream has trout habitat above the 9000 line and coho habitat below the road. This system produces low quantities of high quality gravel.

Habitat Information:

Water source: Valley wall tribs and surface runoff

Intermittent/year-around: year-around

Estimated flows (cfs): Lower end: 4 - 6 Upper end: 2 - 3
On 1/27/99, the flow at the upper culvert was 0.5 - 1.5, and 0.5 - 1.0 cfs at the end of survey.

Water temperatures: Lower end: 7.0 Upper end: 7.0°C
On 1/23/99 temp. at upper culvert was 5.5°C and 5.0°C on 1/24/99
On 1/27/99 temp. at upper culvert was 4.5°C, and 4.0°C at end of survey.

Adjacent stream temperature (Lake Pleasant): 7.5°C

Other water observations: Clear water

Site area measurements: ☐ Indirect ☐ Direct ☒ Combination

Widths: Channel- 2 - 4 m Pond- NA Wetlands- NA

Depths: Channel- 8 - 25 cm Pond- NA Wetlands- NA

Total length surveyed (includes ponds and wetlands):

- 2100 m of measured mainstem
- 400 m of estimated additional mainstem
- 85m of measured tributaries
- 300m of estimated additional tributaries

Total existing habitat area (est.): 6,400 m²

Spawning area: 1,800 m² Tributaries: 100 m² Total: 1,900 m²

Impounded area: 0 m² Tributaries: 0 m² Total: 0 m²

Other rearing area: 4,000 m² Tributaries: 500 m² Total: 4,500 m²

Spawning Habitat conditions: ☐ None ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Describe spawning habitat:

- Rubble and fines degrade the quality of spawning conditions below the 9000 line.
- Boulders, rubble, and steep gradient impair coho spawning above the road. Resident trout spawning appears to be good in this reach.

Rearing habitat conditions: ☐ None ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Describe pond and other rearing habitat:

- The steeper pool/step gradients above the road favors trout.
- Below the 9000 road, the gradient is more favorable to coho. Limiting factors are high flows and little pool habitat.

Describe inaccessible habitat:

- If the culvert at the 9081 road is a barrier, it blocks about 1300 linear meters of trout habitat.

Describe wetland: ☐ Bog ☐ Marsh ☐ Scrub-shrub Wetland ☐ Forested Wetland

- None associated with this channel.

Flooding potential: ☐ Low ☐ Medium ☒ High

- Flashy flows from within the system.

Fish Information:

Site entry condition to Lake Pleasant: ☐ Poor ☐ Fair ☒ Good

- Open and accessible.

Coho access and use:

Juvenile- ☒ Unknown ☐ None ☐ Poor ☐ Fair ☐ Good

Adult- ☐ Unknown ☐ None ☒ Poor ☐ Fair ☐ Good

- Juveniles have access and adult spawning has been observed.
- Spawner survey data is available from the Quileute tribe and WDFW.
- On 1/23/99, three minnow were set above the 9081 road: 0 coho.

Other species access and use: ☐ Chum ☐ Pink ☐ Sockeye ☐ Chinook ☒ Trout

- On 1/23/99, three minnow were set above the 9081 road: one cutthroat trout was captured.
- Access is open to all species.

Habitat Improvements:

Enhancement opportunities:

Possible project type:

- Replace upper culvert if it is deemed a barrier.
- Maintain the integrity of the stream.

Equipment access: good

Additional Comments:

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

- | | | | |
|---|--|---|--|
| <input type="checkbox"/> Aerials | <input checked="" type="checkbox"/> Sketch | <input checked="" type="checkbox"/> Maps | <input checked="" type="checkbox"/> Culvert Report |
| <input type="checkbox"/> Other references | <input checked="" type="checkbox"/> Spawning surveys | <input checked="" type="checkbox"/> Juvenile trapping | <input type="checkbox"/> Fishway Report |

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Sol Duc

Site No.: S-0315

Site Name: Unnamed

WRIA: 20.0315

DATE: 1/23/99

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE	TEMP	DATE	TEMP	COHO	CATCH			COTTID
	SET		PULLED			TROUT			
						RBT	CUTT	0+	
1	1/23	5.5°C	1/24	5.0°C	0	0	0	0	0
2	1/23	5.5°C	1/24	5.0°C	0	0	1	0	0
3	1/23	5.5°C	1/24	5.0°C	0	0	0	0	0
TOTALS:					0	0	1	0	0

COMMENTS:

-Trap 1 was placed just above the upper culvert at a depth of 40 - 45 cm. Boulders, cobble and woody debris instream. Salmonberry and 15 year old alder provide shade and bank cover.

-Trap 2 was placed about 35 m above the upper culvert at a depth of 30 - 40 cm. Boulders, cobble and woody debris instream. Salmonberry and 15 year old alder provide shade and bank cover.

-Trap 3 was placed about 70 m above the upper culvert at a depth of 40 - 45 cm. Boulders, cobble and woody debris instream. Salmonberry and 15 year old alder provide shade and bank cover.

- All traps were baited with salmon roe.

- One NW salamander was captured in the number three trap.

WDFW FISH PASSAGE REPORTING FORM

LEVEL I - Facility/Barrier Identification

- (1) CHECK ONE: ☐ Existing Fishway (includes baffled culverts)
☐ Man-made Fish Passage Problem
☒ Existing non-barrier culvert
- (2) STREAM: Unnamed (3) WRIA#/RM: 20.0315 / 0.3
- (4) TRIBUTARY TO: Lake Pleasant (5) LEGAL(S,T,R): SE ¼ Sec 26 T30N R13W
- (6) LATITUDE/LONGITUDE:
- (7) MILEPOST/ROAD: 0.33 / 9000 Line
- (8) DESCRIPTION OF FISHWAY, FACILITY: NA
- (9) DESCRIPTION OF BARRIER: NA
- (10) OWNER: Rayonier Timber Operations Company
- (11) FISH ACCESS UP TO BARRIER VERIFIED/PRIMARY SPECIES: Coho / trout
- (12) HABITAT AVAILABLE ABOVE FISHWAY OR BARRIER: NA
- (13) IDENTIFIED BY (agency/organization): WDFW - SSHEAR
- (14) SUBMITTED BY/DATE OBSERVED: Nettnin / 3/11/98
- (15) INVENTORY DESCRIPTOR: S-0315

LEVEL II - Culvert/Barrier Description

CULVERT: Lower culvert

- (16) TYPE (Indicate number of each): ☐ concrete round
☐ concrete box
- (17) LENGTH: 40 ft ☐ smooth steel pipe
☒ CMP - Round
- (18) DIAMETER: 8 feet ☐ CMP - Arch or Ellipse
☐ Other:
- (19) WATER DEPTH: (20) SLOPE: (21) VELOCITY:
- (22) OUTFALL DROP: Counter sunk
- DAM:
(23) LENGTH: (24) HEIGHT:

COMMENTS: culvert is skewed to creek on upper end

LEVEL I - Facility/Barrier Identification

(15) INVENTORY DESCRIPTOR: S-0315

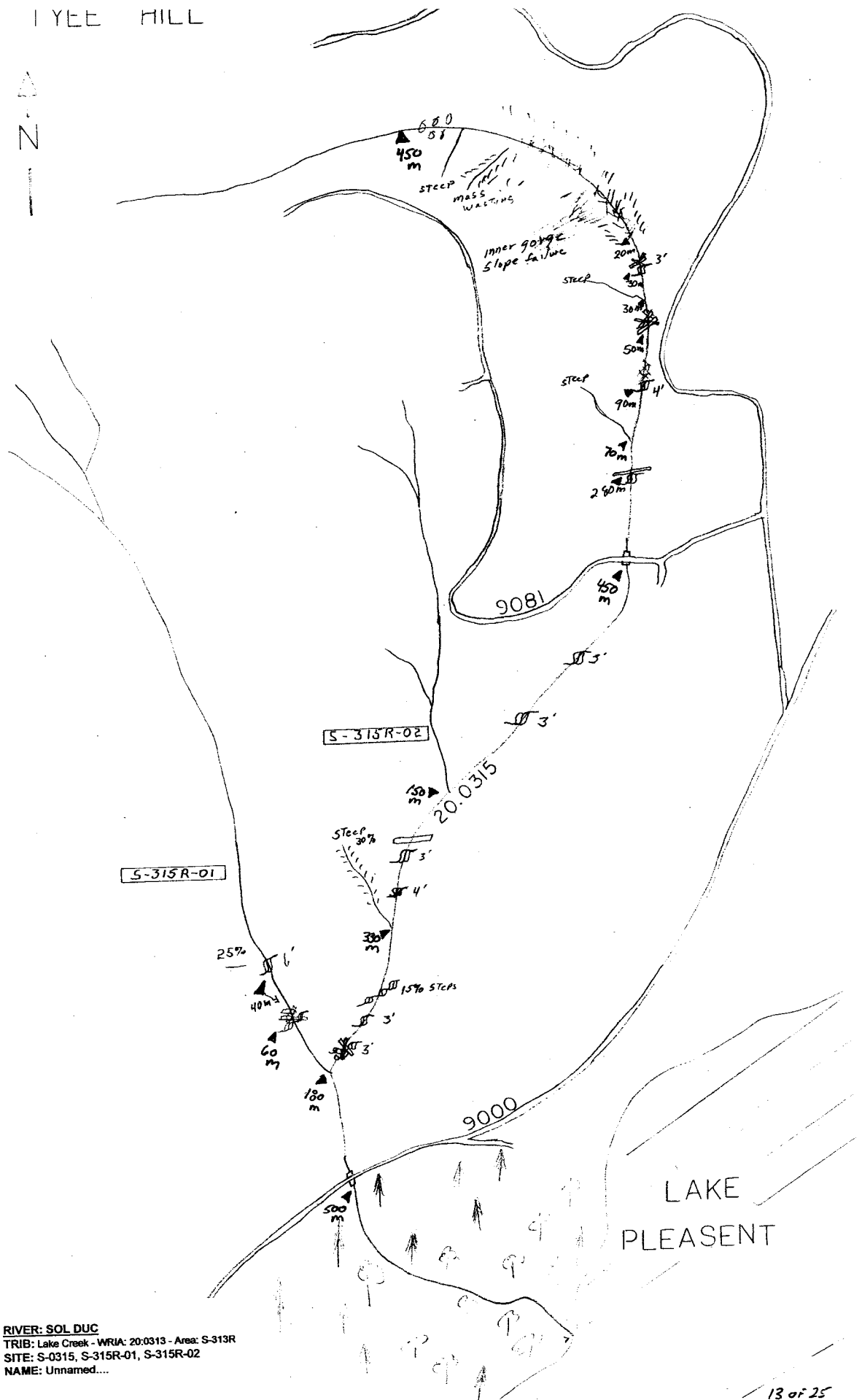
LEVEL II - Culvert/Barrier Description

CULVERT: Upper culvert

DAM:

COMMENTS: twenty foot fill over this culvert.

95-1275 21 JAN 1996



RIVER: SOL DUC
TRIB: Lake Creek - WRIA: 20:0313 - Area: S-313R
SITE: S-0315, S-315R-01, S-315R-02
NAME: Unnamed....

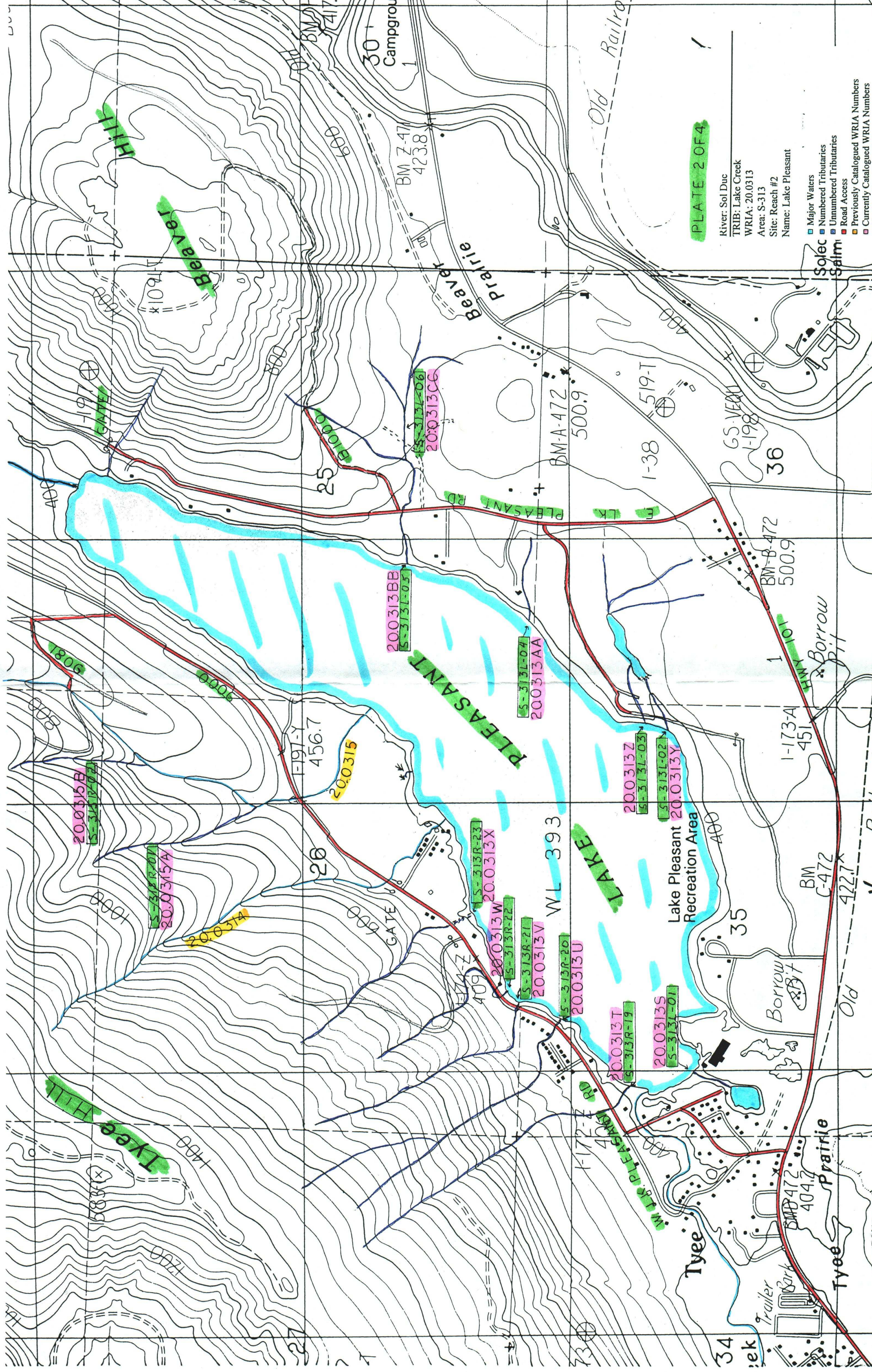


PLATE 2 OF 4

River: Sol Duc
TRIB: Lake Creek
WRIA: 20.0313
Area: S-313
Site: Reach #2
Name: Lake Pleasant

- Major Waters
- Numbered Tributaries
- Unnumbered Tributaries
- Road Access
- Previously Cataloged WRIA Numbers
- Currently Cataloged WRIA Numbers